BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division, Yelahanka Zone

BBMP/2024-25/OW/WORK_INDENT4177

Executive Engineeer
Yelahanka Division
B.B.M.P. Bengaluru - 64

No:EE/YNK-D/KPPP-08/2024-25 Dated: 05-10-2024

APPROVED TENDER SCHEDULE - B

Item-14

Name of Work:-Drilling of Borewells and Providing pipelines in 110 villages areas of Attur Ward No-03

Sl	Description of work	Unit	Approved Qty	Rate Quoted by the Contractor Sri. SHADAYAN(GANESH ENGINEERING WORKS)	
				Rate	Rate in words
1	Geophysical investigation at site for sinking borewells for Providing drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial	Each	7.00	5551.87	Five Thousand Five Hundred FiftyOne Paise EightySeven Only
2	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete) (Above 450m of drilling add 10% for every 50m depth) a) 0.00 to 50.00 mtrs	Mtr	350.00	388.46	Three Hundred EightyEight Paise FourtySix Only
3	b) 50.00 to 100.00 mtrs	Mtr	350.00	487.15	Four Hundred EightySeven Paise Fifteen Only
4	c) 100.00 to 150.00 mtrs	Mtr	350.00	517.60	Five Hundred Seventeen Paise Sixty Only
5	d) 150.00 to 200.00 mtrs	Mtr	350.00	600.54	Six Hundred Paise FiftyFour Only
6	e) 200.00 to 250.00 mtrs	Mtr	350.00	704.48	Seven Hundred Four Paise FourtyEight Only
7	f) 250.00 to 300.00 mtrs	Mtr	350.00	776.93	Seven Hundred SeventySix Paise NinetyThree Only
8	g)300.00 to 350.00 mtrs	Mtr	350.00	911.31	Nine Hundred Eleven Paise ThirtyOne Only

9	F) 350.00 to 400.00 Mtrs	Mtr	350.00	983.76	Nine Hundred EightyThree Paise SeventySix Only
10	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty.	Mtr	525.00	2029.46	Two Thousand TwentyNine Paise FourtySix Only
11	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments.	Each	84.00	157.49	One Hundred FiftySeven Paise FourtyNine Only
12	PVC pipes of 10 Kg/cm2 for 200mm	Mtr	84.00	1212.63	One Thousand Two Hundred Twelve Paise SixtyThree Only
13	Providing and laying at site of work MS casing caps as per IS 1239 (partII) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments including cost of material and labour charges for fixing, if any etc. complete with all lead and lifts and as directed by the Engineer in charge	Each	7.00	172.18	One Hundred SeventyTwo Paise Eighteen Only
14	Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 15.00 HP - 120 LPM @ 266 m = 23 STG Outlet Dia - 2.00"	Nos	7.00	72804.27	SeventyTwo Thousand Eight Hundred Four Paise TwentySeven Only
15	Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark 50mm	Each	486.00	3202.20	Three Thousand Two Hundred Two Paise Twenty Only
16	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union	Each	7.00	280.32	Two Hundred Eighty Paise ThirtyTwo Only
17	Providing wrought mild steel (galvanized) GI collar confirming to IS 1239-II, 1991 with latest amendments if any For 50 mm dia GI collar	Each	511.00	280.32	Two Hundred Eighty Paise ThirtyTwo Only
18	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any.	Each	14.00	223.63	Two Hundred TwentyThree Paise SixtyThree Only
19	Supply and delivery at site wrought middle steel (galvanized) 50 mm dia GI elbow confirming to IS 1239-II, 1991 with latest amendments if any	Each	14.00	280.32	Two Hundred Eighty Paise ThirtyTwo Only
20	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2	Mtr	5355.00	257.23	Two Hundred FiftySeven Paise TwentyThree Only
21	Labour charges for Erection, Electrification and commissioning of Pump sets, including aligning and balancing of all items including supply and erection of two pair of supporting clamps, bore well caps, cable clips and water tight gland cable protectors, bolts, nuts, valve and gauges,tools and equipments etc., involved in the job as per specifications, with necessary tests as per specifications, with testing of as per instructions of engineer incharge of work.	Job	7.00	6824.35	Six Thousand Eight Hundred TwentyFour Paise ThirtyFive Only

22	Labour charges for erection of outdoor type panel board and meter board units with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work.	Job	7.00	1522.36	One Thousand Five Hundred TwentyTwo Paise ThirtySix Only
23	1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part-1) or IS 7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 16 Sqmm, 4 Core, (11 GI Strips - 4 x 0.8 mm)	Km	0.32	148919.92	One Lakh FourtyEight Thousand Nine Hundred Nineteen Paise NinetyTwo Only
24	LABOUR For Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x16) (Street Light Control)	Km	0.32	34761.14	ThirtyFour Thousand Seven Hundred SixtyOne Paise Fourteen Only
25	Earthing: Suppluing and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts,nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia.	Job	7.00	3937.13	Three Thousand Nine Hundred ThirtySeven Paise Thirteen Only
26	Providing Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps bolts nuts and washers etc with necessary materials and labour tools and equipments as per instructions of engineer incharge of work 3.5 x 6 Sqm	Each	7.00	393.71	Three Hundred NinetyThree Paise SeventyOne Only
27	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws 20" x 20" x 2.5"	Nos	13.00	342.40	Three Hundred FourtyTwo Paise Fourty Only
28	Supply and delivery at site brand new best make starter/ control panel suitable for following HP centrifugal pump confirming with ISI mark and its latest amendments. 10 to 12 HP centrifugal pump	Each	7.00	37428.94	ThirtySeven Thousand Four Hundred TwentyEight Paise NinetyFour Only
29	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP	Nos	7.00	9201.32	Nine Thousand Two Hundred One Paise ThirtyTwo Only
30	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm	Each	35.00	1312.38	One Thousand Three Hundred Twelve Paise ThirtyEight Only
31	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50 mm	Each	35.00	1312.38	One Thousand Three Hundred Twelve Paise ThirtyEight Only
32	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve,indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC60898..	Each	13.00	3242.09	Three Thousand Two Hundred FourtyTwo Paise Nine Only
33	Supplying & fixing of Porcelain fuse channel with cutout on existing wooden/panel using necessary nuts, bolts and washers.	Each	39.00	421.01	Four Hundred TwentyOne Paise One Only
34	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. Flat.....with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40 x 40 x 6 mm)-5.00 Mtr Per Box	Rmtr	65.00	320.22	Three Hundred Twenty Paise TwentyTwo Only

35	Supply, installing, testing and commissioning COMMON control panel consisting of the following INCOMING:1 No set of Phase indicating lamps with SFU of suitable rating 1 No, Analog Ammeter, 1 No Analog Voltmeter 1ni with Phase selector switch, Isolating switch OUTGOING for Main Electrical Pump: 1 No. MCB 1 No. DOL of S/D Starter suitable for respective HP 1 No. Electrcal Protection Like single Phase preventor, under voltage over Volage, under current over current & dry run protection suitable for the pump described above 1 no Indoor type NOTE: 1) DOL- Direct Online Starter 2) S-D- Star Delta Starter etc. complete.6 to 15 HP pumps	Each	13.00	16693.41	Sixteen Thousand Six Hundred NinetyThree Paise FourtyOne Only
36	Fabricating supplying and mounting MS box made out 14SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.,	Sqm	467350.00	0.52	Paise FiftyTwo Only
37	Labour charges for erection of outdoor type panel board and meter board units with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work.	Job	13.00	1522.36	One Thousand Five Hundred TwentyTwo Paise ThirtySix Only
38	Yield testing of borewells at final depth with a minimum of 10 hours continuously with the help of pump testing unit including the cost of transportation charges, crew charges and cost of consumables.	Each	7.00	17119.67	Seventeen Thousand One Hundred Nineteen Paise SixtySeven Only
39	Supplying of TPST with rewirable porcelain channels in SM enclosure. Made out of 14 SWG powder coated paint of approved colour. 32A	Nos	21.00	1785.88	One Thousand Seven Hundred EightyFive Paise EightyEight Only
40	Supplying and fixing LED Type panel board indicating lamp with required colour Suitable for 220 V AC 50Hz 12/24 V DC Group 'A'	Nos	7.00	540.70	Five Hundred Fourty Paise Seventy Only
41	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work. In all kinds of soils. Depth upto 1.50m	Cum	472.50	558.97	Five Hundred FiftyEight Paise NinetySeven Only
42	Providing PVC ringtite pipes conforming to IS 985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. complete For: PVC pipes 50mm dia., 6 kg/sqcm & class 5	Mtr	1400.00	145.94	One Hundred FourtyFive Paise NinetyFour Only

	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m, and lift upto 1.5 m. Including cost of all labour complete as per specifications	Cum	252.00	184.78	One Hundred EightyFour Paise SeventyEight Only
44	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density	Cum	189.00	2955.36	Two Thousand Nine Hundred FiftyFive Paise ThirtySix Only
45	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects	Cum	25.20	12737.00	Twelve Thousand Seven Hundred ThirtySeven Only

SHADAKAN

Signature of the Contractor

Executive Engineer,
Yelahanka Division,
BBMP, Bengaluru-64.